From:	spill12
To:	Bob Patton; Mason, Steve; spill12
Cc:	Adams, Adam; Loesel, Matthew
Subject:	(Draft) of comments for WMP Revisions - summary of comments from Conf. Call 3/29/19
Date:	Saturday, March 30, 2019 4:37:57 PM
Attachments:	image001.png Draft 6 Submitted.MLS + SS.pdf Review of JAM Comments_Waste Management Plan.docx

Please review and update where needed. I have a couple of questions for input to address that are highlighted below. Also, confirm the included reference links.
Attached are the comments received from EPA (doc: Review of JAM Comments_WasteManagementPlan.docx) and Waste Permits (doc: Draft 6 Submitted.MSL+SS.pdf) for the second review of the ITC Waste Management Plan for this event. These items were the basis of the conference call held with UC/TCEQ Waste Permits/R12 Waste Section the afternoon of 3/29/19. The following is a summary of the elements to address within the plan provided to the entity. The summary will be shared with the participants of the conference call to document the call after this groups review.
ICP Site Attendance Roster for March 29, 2019 Waste Plan Meeting Conference Call 4:00 PM - 5:10 PM:
Tom Erny - TCEQ
Carlton Porter - TCEQ
Seth Tate - TCEQ
Tina Tran - TCEQ
Johnathan Martin - Harris County Pollution Control
Karrah Shremshock - ITC
Ernie Shirley - CTEH
Adam Adams - EPA
Daniel Tighe - EPA START
Helen Dubach - CTEH
Region 12 – TCEQ on the call:
Alma Jefferson
Westin Massey
Guadalupe Quiroz
Jason Ybarra
Nicole Bealle
Waste Permits – TCEQ
Bob Patton
Sarah Schreier
>add name<
Also included are references which were either mentioned during the call, required, and/or provide supporting information on how to conduct a regulatorily compliant waste determination and classification. This information, in turn, would be used to appropriately identify the appropriate waste disposal method(s).
Call summary:

The TCEQ provided feedback on the second review of the Waste Management Plan (WMP) provided by ITC. The agency's call representatives emphasized that the plan's purpose is to fully address the waste classification, storage, and disposal of the wastes generated from the fire event which began on March 17, 2019. The Waste Management and Sampling plan is to address all wastes generated as a result of the event.

The discussion from the agency focused on the requirements in both State and Federal regulations which require the implementation of specific sampling protocols, analytical methods, and supporting documentation. The main referenced documents included the TCEQ QAPP, waste classification/determination information in guidance and rule; EPA sampling protocols and analytical protocols (SW-846). To facilitate use, the links to these documents (on each agency's webpage) have been included below.

Points raised:

1. All wastes that are mixed with, came into contact with, or result from the event are Hazardous Wastes (e.g., U-listed). All wastes are to be managed as HW and disposed of as HW.
2. No compositing
3. No reuse/recycling of the event related wastes – appropriate disposal at a RCRA permitted facility. No liquid wastes from this event are to be processed through the on-site WWTP. These are hazardous wastes and are to be managed and disposed of as hazardous wastes in accordance with the requirements in 40 CFR 262 an 268. (also the treatment standard(s) are applicable – the mixture, the most restrictive treatment standard is to be applied).
4. Specify the sampling type (e.g., grab) and how collected. Sampling is to follow the QAPP and/or SW-846/EPA Sampling guidance except where regulations allow other methods such as ASTM.
5. Specifically reference the guidance document/rule/etc. (e.g., TCEQ QAPP/SW-846) rather than generically referencing throughout the document.
6. Classification based on generators process knowledge will be limited. The waste Point of Generation includes a mixture outside of SDS information as the waste will also include fire fighting residual (e.g., Foam), fire residuals as the result of combustion (this occurs in all fires), mixing of materials stored, etc.
7. Specify all parameters, include sampling container type, preservation method, analytical method (must identify Totals vs TCLP. TCLP required for RCRA classifications). Must use a lab that has NELAC approved analytical method specific to the analyte.
8. Chain of Custody (COC) process and must include required information
9. Clarifications of terms:
    a. Not 'avoid' rather it is prohibited except as allowed by regulation (Section 3.0.f of document titled: Draft 6 Submitted)
    b. Prevent , not avoid (Section 3.0.h of the document titled: Draft 6 Submitted)
10. Within Section 4.0 of the second draft provide for review there is mention of a 'well-developed' sampling program. The plan being drafted is to be inclusive of any supporting documentation of 'plans' related to the sampling, classification, storage, and final disposal of the wastes generated from the event. Having these very specific and highly detailed documents referenced and included as supporting attachments is acceptable.
11. In Section 4.1:
    a. Define the criteria for when representative sampling would not be necessary or remove

the phrase, “when deemed necessary.”

b. The wastes are ‘U’ listed, as such are toxic as identified by rule. Additional sampling to determine if there are any other EPA hazard codes (e.g., D-listings) for characteristics is to be determined in accordance with waste determination requirements by State/Federal rules.
c. QA sampling is to be conducted in each zone of sampling and for each media as identified by the sampling protocols established by the State/Federal requirements.
d. Sample locations should also be in accordance with the sampling protocols established by the environmental oversight agencies for this event.
e. Grab samples versus Composite samples – in the document, there is mention of ‘aliquots from each roll off..’. Composite sample collection for bulk wastes has a well established protocol. Reference the sampling information available by the environmental oversight agencies.
f. Liquid samples do not undergo the 1311 TCLP extraction process, they are just diluted and analyzed, and the results are total. TCLP implies that analysis will only be conducted for the limited list of toxic organics in 261.24, which do not include any PNAs. PNAs are a subset of the SVOA list. Note that dioxins and furans are common incomplete combustion products.
g. COC must be maintained for each sample. It is possible and is acceptable to have a transfer of custody from the sampler to the transport person to the lab. The COC must reflect this chain, inclusive of date/time/name/etc. on the COC form.
h. The list of samples noted for liquid waste does not indicate preservation method. Also, for the solids. Add TPH for the soil samples.

12. Section 4.2: The section needs specific step-by-step sampling procedures for all types of sampling to be employed and analysis that will be part of the project or included as an attachment/supplement to the plan. Collectors of samples and investigators must be aware of the range and types of analyses they can expect to be collecting and have the appropriate PPE, sampling equipment/preservation, and appropriate parameters on the COC for the lab. All samples are to have identification information that can be cross referenced to source (e.g., tank, roll off, tote, etc.), the sampling activity, COC, and analytical results. Also, if along a ground/water surface, a map locating the sampling location/identifier.
13. Section 4.3: Revise the section for consistency with the RCRA QAPP requirements and SW-846. Sampling must be conducted in a manner that does not disturb or mix the sample materials in order to prevent loss of volatiles to the greatest extent possible.

Address any sampling of phases within a media.

Address analytical of any phases that occur within a sample container.

14. Section 4.3.2: Revise to set firm ratios of on duplicate per every *XX* samples in a defined distinct area. The QA samples must be representative of the sampling media, location and type, as well as the parameters. Again, please reference the guidance information previously referenced. QA guidance is in methods.
15. Section 4.3.3: Field split samples WILL be collected if requested by the representatives of the TCEQ/EPA or as otherwise determined/deemed necessary (by whom….insert). Also, ITC will ensure that split samples have been collected for all methods unless otherwise informed (by whom….insert). Question – should there be definition or reference to guidance on the split sample term?

As described, this is not a split, this is a co-located sample, if collected by agency. A split consists of separate aliquots of the same sample.

Matrix interference should and will be checked using method of dilutions or other such tests to resolve.

All analytical methods shall include the Method or sample detection limit, the sample quantitation limit and dilution factor for each analyte in each sample in the laboratory report.

16. Section 4.3.6: All supporting data for laboratory calibrations, calibration check samples, daily calibration checks, recovery levels, etc. are to be included in the data report package provided. Copies of all analytical information is to be provided to the TCEQ and EPA (confirm and POC).

    LCS are samples, not standards. There are other lab QA analyses not included is this list (instrument blanks, interference check samples, instrument tuning). Indicate the QA included/specified in the methods.

    QA related information to address in plan provided: Validation is the comparison of the QA results to the acceptance criteria, either from the method or generated by the laboratory. Validation may indicate bias in the results reported by the laboratory. Organic analysis accuracy is primarily evaluated on each sample based on the surrogate recoveries. LCS and MS are used more for metals. For organics, they are used to show lab capability. Where it is noted that Precision will be determined by evaluating laboratory and field duplicate samples, there are two different precision measurements here, lab duplicates for lab precision, field duplicates for sample collection process and homogeneity of the media being sampled.

    Identify the lab and/or labs to be used and if any parameters will be contracted out from the main receiving lab.

17. Section 4.4: The decontamination process will also be generating a waste. Elaborate on the handling of this waste (solids, liquids) also, a it is a waste generated from this event and all classification, storage, disposal conditions, unless otherwise concurred with by the TCEQ, will be applicable.
18. Section 5.0: in the table, also address the absence of U220 and have supporting documentation to include as an attachment to the detailed plan.
19. Section 6.0: In the table, for the line identified as “Contaminated Water/Recoverable product”: First, Please elaborate on this included verbiage. Second, there is significant concern that there is consideration of any ‘recoverable’ product. Extensive documentation to demonstrate that the material was not impacted by the fire response (e.g., mixed, contaminated, denatured, etc.) would be required to be provided to the TCEQ/EPA for evaluation. Provide (it may be provided as a supporting document), the handling and storage conducted for any and all materials removed from the tanks within the 2nd 80’s area. Any mixtures are a waste and subject to full regulation under RCRA.

    Within the “Ultimate Disposal” column:: No ‘recovery’ is to be initiated without review by TCEQ/EPA.

    The contaminated water will include stormwater and wash waters that have contacted contaminated solid, vegetation, hard surfaces, and accumulated or flowed into the locations where collected.

20. Section 7.0: All units managing the resulting wastes generated from the event should be identified on the NOR. These units will be subject to the state/federal storage/unit regulations

as found in 30 TAC 335 and 40 CFR 260 – 270.

Where are the separations for collections to be determined? How will vacuum truck operations determine which materials they are not to collect?

No recovery wastes or liquids are to be managed in the WWTP or treated on-site without specific authorization by the TCEQ. The current TPDES permit DOES NOT authorize the treatment of the wastes generated from this event.

21. All documentation must include the information identified in rule and/or specifically required by the TCEQ/EPA for this event.

Also note: The remediation plan will be needed to be developed. The sampling activity is an element of the remediation efforts that will be required. The remediation will be required to all impacted areas both on-site and off-site. The current plan under development, Waste Management/Sampling Plan, will supplement the remediation plan/activities. All remediation activity wastes will be subject to the conditions noted here.

Reference materials:

1. TCEQ RCRA QAPP: https://www.tceq.texas.gov/permitting/waste_permits/ihw_permits/qapp.html
2. TCEQ RCRA Sampling information: https://www.tceq.texas.gov/remediation/analysis.html
3. TCEQ Guidelines for Waste Classification: https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-022.pdf
4. Chapter Nine of the SW-846 Compendium: Sampling Plans: https://www.epa.gov/hw-sw846/chapter-nine-sw-846-compendium-sampling-plans
5. EPA SW-846 Quality Assurance and Hazardous Waste Test Methods: https://www.epa.gov/hw-sw846/quality-assurance-and-hazardous-waste-test-methods
6. EPA Guidance on Choosing a Sampling Design for Environmental Data Collection: https://www.epa.gov/quality/guidance-choosing-sampling-design-environmental-data-collection-use-developing-quality (include or not??)

From: Karrah Shremshock <KShremshock@iterm.com>
Sent: Wednesday, March 27, 2019 2:37 PM
To: spill12 <spill12@tceq.texas.gov>; johnathan.martin@pcs.hctx.net
Cc: Helen Dubach <hdubach@ctehrm.com>; Ernie Shirley <eshirley@cteh.com>; James McCormack <jmccormack@cteh.com>
Subject: WMP Revisions

Good afternoon all,

Here is the updated copy of the waste management plan for review. I have included a word document that incorporates the questions asked with our answers for easy reference. Please let me know if have any questions, or need any clarification.

Thanks,

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